

CLAIMS

What is claimed is:

1. A mobile lamp having a first lighting unit (58) for the radiation of a first light beam (54) in a first radiation direction (A) which, for the formation of the first light beam (54), has at least one first light emitting diode element (30) and one image producing device (42) which is associated with the first light emitting diode element (30) and to which light emitted by the first light emitting diode element (30) can be supplied; and having a second lighting unit (60) for the radiation of a second light beam (56) in a second radiation direction (A') differing from the first radiation direction which, for the formation of the second light beam (56), has at least one second light emitting diode element (34) and one image producing device (44) which is associated with the second light emitting diode element (34) and to which light emitted by the second light emitting diode element (34) can be supplied.

2. A mobile lamp in accordance with claim 1, characterized in that a switching device (64) is provided, by means of which the lighting units (58, 60) can be switched on and off individually.

3. A mobile lamp in accordance with claim 1, characterized in that the image producing devices (42, 44) of the two lighting units (58, 60) are made in one piece in one component (20).

4. A mobile lamp in accordance with claim 1, characterized in that one of the lighting units is movably supported relative to the other such that the angle between the first and the second radiation directions can be changed.

5. A mobile lamp in accordance with claim 1, characterized in that the second radiation direction (A') includes an angle with the first radiation direction (A) which is larger than 5° and smaller than 85°.

6. A mobile lamp in accordance with claim 1, characterized in that the lighting units (58, 60) are made such that the light beams (54, 56) which can be radiated by the lighting units (58, 60) are divergent and a cross-sectional area of the first light beam (54) is smaller at a pre-determined distance from the lamp than a cross-sectional area of the second light beam (56) at the pre-determined distance.

7. A mobile lamp in accordance with claim 1, characterized in that the at least one image producing device of at least one of the lighting units includes a focusing optical component and is made such that the light of the corresponding lighting unit can be focused at a pre-determined distance onto an area orthogonal to the radiation direction.

8. A mobile lamp in accordance with claim 1, characterized in that the lighting units (58, 60) are made such that a light spot with an area between 1 m<sup>2</sup> and 4 m<sup>2</sup> can be produced by means of the first lighting unit (58) on a first area oriented orthogonally to the first propagation direction (A) at a distance of approximately 10 m and that a light spot (114) with an area between 0.4 m<sup>2</sup> and 2 m<sup>2</sup> can be produced by means of the second lighting unit (60) on a second area oriented orthogonally to the second propagation direction at a distance of approximately 1 m.

9. A mobile lamp in accordance with claim 1, characterized in that the image producing devices include lenses (42, 44) spaced apart from the light emitting diode elements.

10. A mobile lamp in accordance with claim 1, characterized in that the first and/or second light units (58, 60) each include at least two light emitting diode elements (30, 34) and at least two corresponding image producing devices (42, 44).

11. A mobile lamp in accordance with claim 10, characterized in that the image producing devices (42, 44) are formed by at least two light emitting diode elements (30, 34) of one of the lighting units (58, 60) such that a pre-determined area (106, 108) can be illuminated at a pre-determined distance from the mobile lamp by light beams (104, 104', 110) of said light emitting diode elements (30, 40).

12. A mobile lamp in accordance with claim 1, characterized in that the light emitting diode elements (30, 34) are light emitting diode elements for the emission of substantially white light.

13. A mobile lamp in accordance with claim 1, characterized in that the lamp is made as a vehicle lamp, in particular as a bicycle lamp.

14. A mobile lamp in accordance with claim 1, characterized in that the lamp is made as a head lamp.

15. A mobile lamp in accordance with claim 1, characterized in that the lamp has an areal support element (24) which is pivotable relative to the lighting units (58, 60) in a plane which is aligned substantially parallel to the first and second radiation directions (A, A').

16. A mobile lamp in accordance with claim 15, characterized in that a housing (18) is provided in which the lighting units (58, 60) are arranged, and in that latch elements (72, 74, 76, 78) complementary to one another are arranged at the housing (18) and at the support element (24) by means of which the support element (24) can be secured in its relative position to the housing (18).

17. A mobile lamp in accordance with claim 1, characterized by a housing (18) for the reception of the lighting units (58, 60) and by two lugs (88, 86') which are arranged at opposing sides of the housing (18), are connected to the housing (18) and at which an elastic band (10) can be held for the fastening of the lamp to an object or to a head of a person and which are so flexible that their shape can be matched to the shape of the object or of the head by the tension of the elastic band (10) on being secured to the object or to the head.

18. A mobile lamp in accordance with claim 1, characterized in that the lighting units are arranged in a housing in which a battery compartment is provided.

19. A mobile lamp in accordance with claim 1, characterized in that the lighting units (58, 60) are held at an elastic band (10) in a housing (18); and in that a battery holder (14) is held at the band (10).